

Fig. 2

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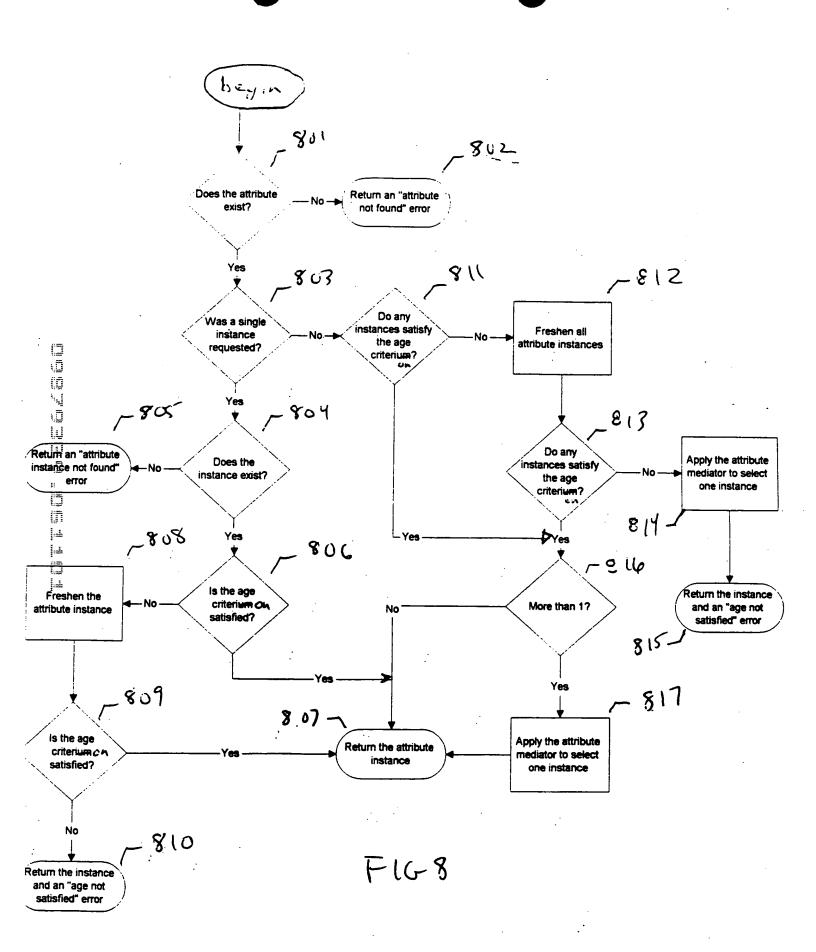
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context server table	request handler	ıce)	ice)	ıce)	214.7		attribute instance table_	number of	context clients	consuming	2	2			0	1217
Ö		(reference)	(reference)	(reference)	4/6		attri	units			degrees/minutes	degrees/minutes	1	meters	none	7216
٠	filename	gps.exe	ips.exe	I r a.exe	-413			timestamp			13:11:04.023	13.11.01.118	2/22/2000	13:11:01:118 2/22/2000	none	1515
	installation date	2/10/2000	2/21/2000	2/10/2000	FIG 4			uncertainty			,60°,0	0°.021'		S :	none	8 FIG 5
	version	/2/	2/	/7	21HJ			value			47° 38.73' N,	47° 38.745' N,	122° 18.424' W	22	none	5/5/ 7
			-	nalysis 1	1141			context server	name		sd8	ips		sdi	location_region_ analysis	11.
	context server name	gns	sai	location region analysis				attribute name			user.location	user location	-	user elevation	user in_region	ا ا ا
		401	40,	113	ž	•					S S		2021	S) es	•)

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(001 / location map						
J			(reference)	(e)		
distance from home	ne		(reference)	(ə:		
region analysis			(reference)	(ə:		
- Sog .	1			J	١ و ١٦	
			FIG 6		,	:
				·		
	•	·				
					attri	attribute instance table
attribute name	context server	value	uncertainty	timestamp	units	Jo Jaquinu
	name		•			context clients
user location	gne	47° 38 73' N	0, 00,	13-11-04 023	deorees/minutes	2
70 - PC	5ps	122° 18.43' W))	2/22/2000		1
user location	ips	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2
705		122° 18.424' W		2/22/2000		
user elevation	sdi	22	د	13:11:01.118	meters	
\$\partial \text{\$\partial \text{\$\partin \text{\$\partial \text{\$\partial \text{\$\partial \text{\$\partial	•			2/22/2000		,
user in_region	location region analysis	none	none	none	none	-



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attribute name	context server	value	uncertainty	timestamp	units	number of
	name					context clients
						consuming
user location g	SdS	47° 38.73' N,	.60`.0	13:11:04.023	degrees/minutes	2
		122 18.43 W		212212000		
user location in	Sai	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2
	L	122° 18.424' W		2/22/2000	·	
ilser elevation	Sui	22.25	5	13:11:06.565	meters	
				2/22/2000		
user in region	region analysis	none	none	none	none	-
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١٥١٦	50)	10 \ 1014	7 Cleis FIG 10	21017 110	7 - 1	
	TRUE	none	user in region	region analysis	in region true	8
		parameter	parameter			
logical operator	comparison value	second logical	first logical	context client name	condition name	
condition table						

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condition monitor table

					Common	condition last	trigger handler	stopped	
	condition	context client	condition	behavior	treducincy	evaluated	reference		
_	monitor name	name	name					Ç.	
	region bounda	region bounda region analysi in region true	in_region_true	<u>_</u>	30		(reierence)	2	
	· passono ···	,		FALSE		41 441 4000			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	112 11	13 FIG II				9 = 	

			_			<u>~</u>) -
7000000	stopped			Ves		× / · ·	
	condition last trigger handler	reference		(reference)			
	Condition last	arahisted .	Cvaluated	12.11.50 101	2/22/2000		2121 -5141 /
	Constitution of	Inequency			20		
	behavior				TRUE or	FALSE	1213 F121
		condition	name		region bounda region_analysi in_region_true TRUE or		ノ・
		context client	902	Hallic	region_analysi	S	21217
		condition		monitor name	region bounda	r crossed	1777
						ノミノ	Ì

condition monitor table /

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attribute request table

attribute name	context client name			
user.location	distance_from_home			
user.in_region	location_map			
user.location [gps]	location_region_analysis			
user.location [gps] user.elevation	location_map			
	7			
1411	Figure 14 /4 / 2			

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User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	Speed
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection_status
Auditory availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power source
	Power level
Anger Frustration	Environment.
Confusion	People.
	Nearest
Activity.	Number_present
Driving	Number close
Eating	Local.
Running	Time
Sleeping	Date
Talking	Temperature
Typing	Pressure
Walking	Wind_speed
Location.	Wind_direction
Place_name	Absolute humidity
Latitude	High forecast_temperature
Longitude	Low forecast temperature
Altitude	
Room	People_present
Floor	Ambient_noise_level
Building	Ambient light level
Address	Days. <pre>previous or future>.</pre>
Street	High_temperature
City	Low_temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. < place name >. (same as Environment. Local)
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording



- a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
- b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

2) Computer

- a) Power
- b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
- c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

Fig. 16

